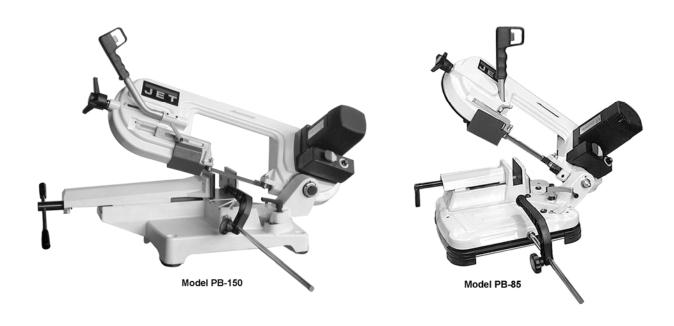


Operating Instructions and Parts Manual Portable Horizontal Bandsaws

Models PB-85 and PB-150



WMH TOOL GROUP

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WARRANTY AND SERVICE

WMH Tool Group, Inc., warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Service Centers located throughout the United States can give you quick service. In most cases, any of these WMH Tool Group Authorized Service Centers can authorize warranty repair, assist you in obtaining parts, or perform routine maintenance and major repair on your JET® tools. For the name of an Authorized Service Center in your area call 1-800-274-6848.

MORE INFORMATION

WMH Tool Group is consistently adding new products to the line. For complete, up-to-date product information, check with your local WMH Tool Group distributor, or visit jettools.com.

WARRANTY

JET products carry a limited warranty which varies in duration based upon the product. (MW = Metalworking, WW = Woodworking)



WHAT IS COVERED?

This warranty covers any defects in workmanship or materials subject to the exceptions stated below. Cutting tools, abrasives and other consumables are excluded from warranty coverage.

WHO IS COVERED?

This warranty covers only the initial purchaser of the product.

WHAT IS THE PERIOD OF COVERAGE?

The general JET warranty lasts for the time period specified in the product literature of each product.

WHAT IS NOT COVERED?

Five Year Warranties do not cover woodworking (WW) products used for commercial, industrial or educational purposes. Woodworking products with Five Year Warranties that are used for commercial, industrial or education purposes revert to a One Year Warranty. This warranty does not cover defects due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair or alterations, or lack of maintenance.

HOW TO GET SERVICE

The product or part must be returned for examination, postage prepaid, to a location designated by us. For the name of the location nearest you, please call 1-800-274-6848.

You must provide proof of initial purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will repair or replace the product, or refund the purchase price, at our option.

We will return the repaired product or replacement at our expense unless it is determined by us that there is no defect, or that the defect resulted from causes not within the scope of our warranty in which case we will, at your direction, dispose of or return the product. In the event you choose to have the product returned, you will be responsible for the shipping and handling costs of the return.

HOW STATE LAW APPLIES

This warranty gives you specific legal rights; you may also have other rights which vary from state to state.

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WMH TOOL GROUP LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG THE IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

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- 1. Read and understand the entire owners manual before attempting assembly or operation.
- 2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
- 3. Replace the warning labels if they become obscured or removed.
- 4. This band saw is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a band saw, do not use until proper training and knowledge have been obtained.
- 5. Do not use this band saw for other than its intended use. If used for other purposes, WMH Tool Group disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
- 6. Always wear approved safety glasses/face shields while using this band saw. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
- 7. Before operating this band saw, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Non-slip footwear or anti-skid floor strips are recommended. Do **not** wear gloves.
- 8. Wear ear protectors (plugs or muffs) during extended periods of operation.
- 9. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead based paint.
 - Crystalline silica from bricks, cement and other masonry products.
 - Arsenic and chromium from chemically treated lumber.

Your risk of exposure varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment, such as face or dust masks that are specifically designed to filter out microscopic particles.

- 10. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
- 11. Make certain the switch is in the **OFF** position before connecting the machine to the power supply.
- 12. Make certain the machine is properly grounded.
- 13. Make all machine adjustments or maintenance with the machine unplugged from the power source.
- 14. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
- 15. Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately.
- 16. Make sure the band saw is firmly secured to the floor or bench before use.
- 17. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- 18. Provide for adequate space surrounding work area and non-glare, overhead lighting.
- 19. Keep the floor around the machine clean and free of scrap material, oil and grease.
- 20. Keep visitors a safe distance from the work area. Keep children away.



- 21. Make your workshop child proof with padlocks, master switches or by removing starter keys.
- 22. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
- 23. Maintain a balanced stance at all times so that you do not fall or lean against the blade or other moving parts. Do not overreach or use excessive force to perform any machine operation.
- 24. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and safer.
- 25. Use recommended accessories; improper accessories may be hazardous.
- 26. Maintain tools with care. Keep blades sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories.
- 27. Make sure the work piece is held securely in the vise before operating. Never use your hand to hold the work piece.
- 28. Turn off the machine before cleaning. Use a brush or compressed air to remove chips or debris do not use your hands.
- 29. Never leave the machine running unattended. Turn off the power and do not leave the machine until it comes to a complete stop.
- 30. Remove loose items and unnecessary work pieces from the area before starting the machine.

Familiarize yourself with the following safety notices used in this manual:

This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

AWARNING This means that if precautions are not heeded, it may result in serious injury or possibly even death.

-- SAVE THESE INSTRUCTIONS --

Introduction

This manual is provided by WMH Tool Group covering the safe operation and maintenance procedures for a JET Model PB-85 or PB-150 Band Saw. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. This machine has been designed and constructed to provide years of trouble free operation if used in accordance with instructions set forth in this manual. If there are any questions or comments, please contact either your local supplier or WMH Tool Group. WMH Tool Group can also be reached at our web site: www.wmhtoolgroup.com.

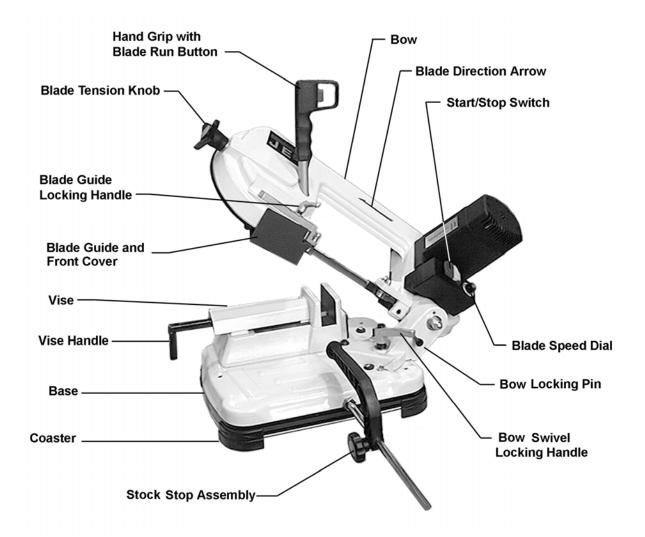
Specifications

Model Number	PB-85 .	PB-150
Stock Number	414495 .	414496
Motor	850W, 1Ph, 115V.	1800W, 1Ph, 115V
		68.3
		0.5
		80-260
Round Capacity at 90° (in.)	3.35 .	5.5
Round Capacity at 45° (in.)	2.55 .	
Rectangular Capacity at 90° (in.)	3.35 .	5.5
Rectangular Capacity at 45° (in.)	2.36 .	4
		0 to 60
Overall Dimensions (in.) (L x W x H)	33.5 x 14.2 x 25.6.	40.1 x 27.6 x 35.4
		79 idling; 81.2 operating
Net Weight (lbs.)	35 .	123
		165

The above specifications were current at the time this manual was published, but because of our policy of continuous improvement, WMH Tool Group reserves the right to change specifications at any time and without prior notice, without incurring obligations.

Features and Terminology

Model PB-85 is shown; features are similar for the PB-150.



Unpacking

Open shipping container and check for shipping damage. Report any damage immediately to your distributor and shipping agent. Do not discard any shipping material until the band saw is assembled and running properly.

Compare the contents of your container with the following parts list to make sure all parts are intact. Missing parts, if any, should be reported to your distributor. Read the instruction manual thoroughly for assembly, maintenance and safety instructions.

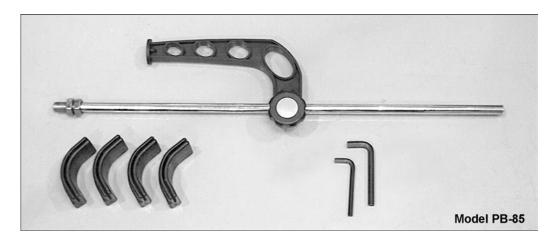
Contents of the Shipping Container

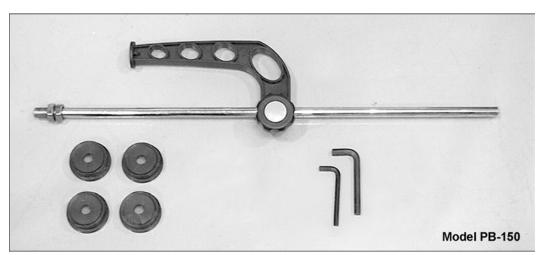
(Model PB-85)

- 1 Band Saw
- 1 Work Stop Assembly (with two hex nuts)
- 4 Curved Coasters
- 2 Hex Wrenches (6 and 8mm)
- 1 Owner's Manual
- Warranty Card

(Model PB-150)

- 1 Band Saw
- 1 Work Stop Assembly (with two hex nuts)
- 4 Round Coasters
- 2 Hex Wrenches (6 and 8mm)
- 1 Owner's Manual
- 1 Warranty Card





Read and understand the entire contents of this manual before attempting set-up or operation! Failure to comply may cause serious injury.

Assembly

The Band Saw should be disconnected from power during assembly.

When transporting the **PB-85** band saw, it can be lifted by the bow when the cutting arm is locked in the down position. See Figure 1. Make sure the bow has been lowered all the way and the pin has been pushed in to secure the bow before transporting.

The **PB-150** is heavy; use an assistant to help lift it by the base.

Unpainted surfaces of the band saw are treated with a rust preventative. Clean all rust protected surfaces with a soft cloth dampened with a cleaner/degreaser. Do not use an abrasive pad. Do not use paint thinner, lacquer thinner, gasoline or mineral spirits; these will damage painted surfaces.

The band saw can be operated without securing it to a table or workbench, using the four coasters provided. **Model PB-85:** Place the band saw on its side and install the four curved coasters (Figure 2) by pushing them onto the bottom edges as shown. **Model PB-150:** push the four round coasters into the circular recesses beneath the cast iron base (Figure 3).

If you desire to secure the band saw to a table or stand, use screws and flat washers through the holes in the base (three holes in the PB-85, four in the PB-150). 5/16" diameter screws are recommended for this. NOTE: Install the stock stop *before* mounting the band saw to a table or stand.

A metal stand (stock no. 414497) designed especially for the portable band saw can be purchased from your JET distributor.

Stock Stop

With the band saw still resting on its side, install the stock stop. See Figure 2.

- 1. Remove the outer hex nut from the stock stop rod, and slide the rod into the hole at the front of the band saw's base.
- Re-install the outer hex nut onto the threads of the rod from inside the base, as shown in Figure 2.
- 3. Tighten both hex nuts with a wrench.
- 4. Slide the stock stop onto the rod and tighten the knob (see Figure 7).

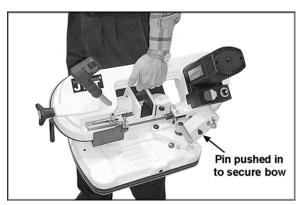


Figure 1

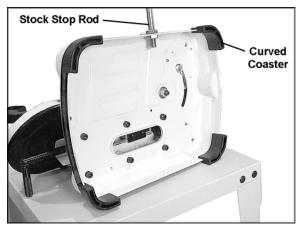


Figure 2 (PB-85 shown)

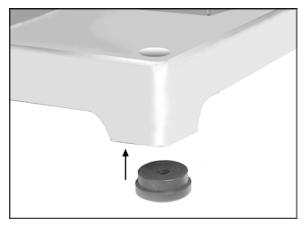


Figure 3 (PB-150 only)

Grounding Instructions

AWARNING This machine must be properly grounded while in use to protect the operator from electric shock.

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This band saw is equipped with an electric cord having an equipment-grounding conductor and a grounding plug similar to that shown in Figure 4. The plug must be inserted into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor, with insulation having an outer surface that is green with or without yellow stripes, is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the machine is properly grounded. Use only three wire extension cords that have three-prong grounding plugs and three-pole receptacles that accept the machine's plug.

115 Volt Operation

As received from the factory, your band saw is ready to operate at 115 volt power, using an outlet and a plug that look similar to those illustrated in Figure 4.

For the **Model PB-85**, a 15 amp circuit is recommended, which includes wires rated for at least 15 amp, and a 15 amp circuit breaker.

For the **Model PB-150**, a 20 amp circuit is recommended, which includes wires rated for at least 20 amp, and a 20 amp circuit breaker.

A temporary adapter, which looks like the adapter illustrated in Figure 5, may be used to connect this plug to a two-pole receptacle as shown, if a properly grounded outlet is not immediately available. The temporary adapter should only be used until a properly grounded outlet can be installed by a qualified electrician.

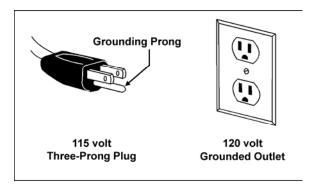


Figure 4

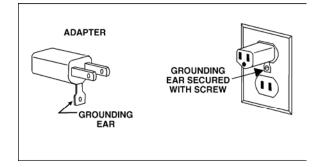


Figure 5

The green colored rigid ear, lug or tab, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box, as shown in Figure 5.

Extension cords

If an extension cord is necessary, make sure the cord rating is suitable for the amperage listed on the machine's motor plate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

Use the chart in Figure 6 as a general guide in choosing the correct size cord. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Adjustments

Stock Stop

The stock stop is useful for making multiple cuts of the same length. Simply determine the stock stop's position, then place the end of successive workpieces against the stock stop. See Figure 7.

Loosen the knob and slide the stock stop to the desired place on the rod. The stock stop can be installed on the rod in reverse position, for cutting longer workpieces. Always tighten the knob before operating.

Blade Guide and Bearings

- 1. Disconnect machine from power source.
- The front bearing (B, Figure 8) is mounted to an eccentric bushing and is adjustable. Loosen the cap nut (A, Figure 8) and rotate the front bearing (B, Figure 8) until the bearing just lightly contacts the blade. Do not pinch the blade.
- 3. Re-tighten cap nut (A, Figure 8).
- 4. Repeat for the other guide bearing assembly.
- 5. There should be minimal exposure of the blade during cutting operations. Loosen the handle (C, Figure 8) and slide the blade guide assembly (D, Figure 8) as close to the workpiece as possible without interfering with the workpiece.
- Re-tighten handle.

Recommended Gauges (AWG) of Extension Cords

	Extension Cord Length *					
Amps	25 feet	50 feet	75 feet	100 feet	150 feet	200 feet
< 5	16	16	16	14	12	12
5 to 8	16	16	14	12	10	NR
8 to 12	14	14	12	10	NR	NR
12 to 15	12	12	10	10	NR	NR
15 to 20	10	10	10	NR	NR	NR
21 to 30	10	NR	NR	NR	NR	NR

*based on limiting the line voltage drop to 5V at 150% of the rated amperes.

NR: Not Recommended.

Figure 6

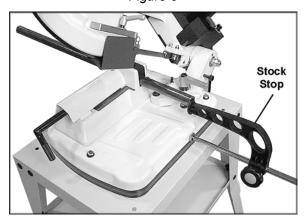


Figure 7

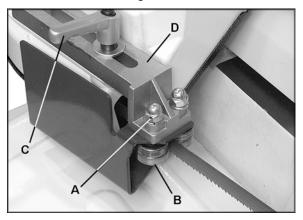


Figure 8

Miter Cuts

The band saw's bow can be swiveled for miter cuts (up to 45° on the Model PB-85; up to 60° on the Model PB-150). Loosen the handle (A, Figure 9) and pivot the bow to the desired angle on the scale (B, Figure 9).

Adjustable stops (C, Figure 9) for square and 45° enable a quick setup.

NOTE: The handle (A, Figure 9) can be adjusted so that it does not interfere with other parts of the machine. Simply pull up on the handle, rotate it on the pin, then release the handle making sure it seats itself properly on the pin.

Bow Depth Stop

The stop (D, Figure 9) controls the depth to which the bow falls and prevents the blade from contacting the base. This stop has been set at the factory. If future adjustment is ever needed, loosen the hex nut and turn the screw with a hex wrench. When the depth stop is properly set, retighten the hex nut.

Blade Tension

Rotate the knob (Figure 10) clockwise to tighten the blade on the wheels. Do not overtighten.

The model PB-150 has a tension indicator, shown in Figure 11. The tension is correct when the indicators are aligned.

Blade Tracking

Tracking the blade requires that the band saw be operating while the back cover is removed. Use extreme caution.

Blade tracking has been set at the factory and should require no adjustment. Since tracking can only be accomplished with the blade moving and the back cover removed, it is suggested that any blade tracking be accomplished by qualified personnel who are familiar with this type of adjustment and the dangers associated with it.

Tracking is set properly when the back of the blade, while running, lightly touches the lip of the wheel. NOTE: Over-tracking (allowing blade back to rub hard against wheel lip) will damage the blade wheels and blade.

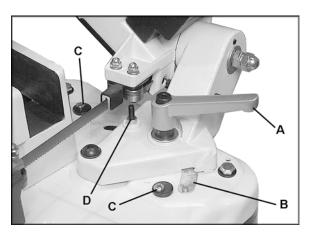


Figure 9

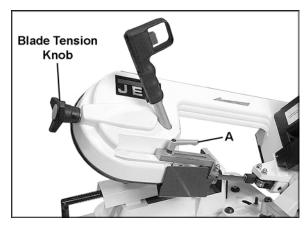


Figure 10

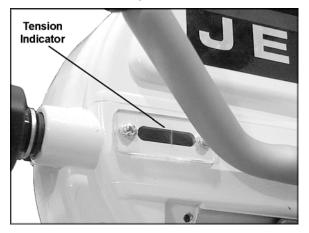


Figure 11 (Model PB-150 only)

Blade Replacement

- 1. Disconnect machine from power source.
- 2. Raise the bow to vertical position.
- 3. Loosen the handle (A, Figure 10) and lower the blade guide and front cover (Figure 12) as far as possible.
- 4. Remove the back blade cover by unscrewing the knobs.
- Release the blade tension by turning the blade tension knob (Figure 10) counterclockwise.
- Extract the blade from the guides and then remove it from around the wheels. (Wear gloves when handling blades to prevent injury.)
- 7. Inspect the new blade for flaws (cracks, broken teeth, bending) before installing. The blade should be sharp and have a proper set. Do not use a faulty saw blade.
- 8. Install the new blade through the guides and around the wheels, making sure the teeth are pointing in the proper cutting direction. See Figure 13.
- 9. The blade should be tensioned and tracked properly before proceeding. See "Blade Tension" and "Blade Tracking" above.
- 10. Install the back blade cover and re-connect band saw to power source.
- 11. The new blade must now be "run in." A carefully run-in blade lasts longer and gives better performance. Let the blade run idle for about two minutes, then perform two or three cuts, preferably on a solid workpiece of .40 to .50 millimeter diameter. Use very light pressure on the blade, gradually increasing pressure with each cut. See under "Operation" for cutting procedures.

Vise Adjustment

Place the workpiece against the fixed jaw, and rotate the handle (Figure 14) clockwise to move the adjustable jaw against the workpiece.

The vise should be tight enough that round stock will not roll. For short workpieces, make sure enough of the workpiece is gripped within the vise to ensure a stable cut. For very long workpieces, use table extensions, roller stands, etc. to help support them.

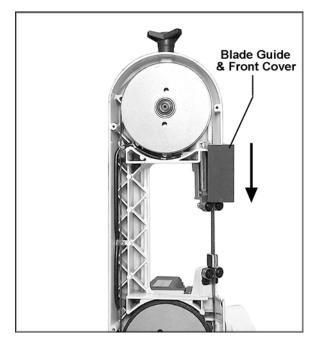


Figure 12

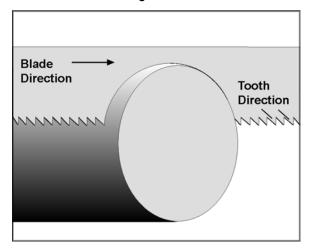


Figure 13

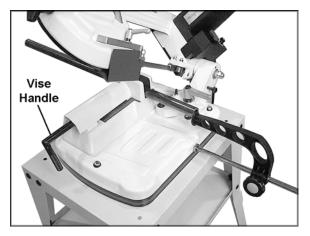


Figure 14

Operation

The PB-85 and PB-150 Band Saws have been designed for dry cutting of metals only. Also, do not cut magnesium as this may present a fire hazard.

Support long workpieces with roller stands.

The start/stop switch contains a safety feature. To prevent the band saw from being turned on, pull out the section of the switch, as shown in Figure 15, and store it in a safe place. To operate the band saw, re-insert the switch section.

The band saw has an internal thermal overload to protect the motor, and will activate in case of numerous successive cuts or constant overfeeding. If the machine suddenly shuts off, release the button on the hand grip. Wait several minutes for the thermal overload to reset itself, then press the hand grip button again.

Remove cut or jammed workpieces only when the motor has been turned off and blade is at a complete standstill.

General Operating Procedure:

- 1. Verify that all guards, covers, etc. are in place and in working order, and the blade is tensioned properly.
- Place workpiece in vise and tighten vise.
 The workpiece should be fitted directly between the jaws without adding other objects.

When the workpiece to be cut is a profiled section, flat piece or special shape, refer to the examples shown in Figure 16 for proper clamping positions. The top row shows acceptable clamping positions, the bottom row shows **un**acceptable positions.

If the thickness of the profiled section is very thin, a piece which duplicates the profile should be fitted inside the workpiece itself, to prevent the workpiece being crushed between the jaws.

AWARNING
Never hold a workpiece by hand when cutting it. The workpiece should be firmly secured in the vise. Never reach into the cutting area during cutting operations.

- 3. Set the blade guide assembly as close to the workpiece as possible to prevent excess exposure of the blade during the cut.
- 4. Flip up the switch to START position.

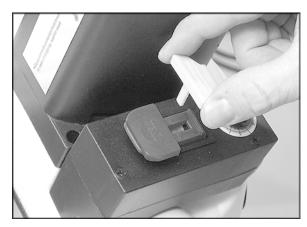


Figure 15

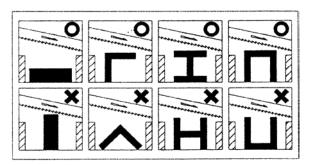


Figure 16

P/	ART	RECOMMENDED	CUTTING	RECOMMENDED
DIMENSIONS		TOOTHING	SPEED	CUTTING TIMES
(n	nm)	(tooth for inch)	(m/min)	(min. sec.)
	30	8/12	60	0' 40"
	50	6	60	2' 00"
Solid	85	6	60	5' 00"
_	30	8/12	60	1' 10"
	50	6	60	2' 10"
Solid	85	6	60	8' 00"
	25x35	8/12	60	1' 10"
	40x50	6	60	2' 30"
Solid	85x105	6	60	11' 00"
	30 x s. 1	18	80	0' 05"
	40 x s. 2	14	80	0' 15"
Tubing	50 x s. 5	8/12	80	0, 50"
	30 x s. 1	18	80	0' 10"
Tubing	50 x s. 2	14	80	0' 30"

Figure 17

- Rotate the speed dial to the desired setting. (The dial can also be rotated while the blade is running.) Refer to the chart in Figure 17 for recommended blade speed and downfeed rate settings.
- 6. Press the blade run button on the hand grip to start the saw blade.
- Use the hand grip to slowly bring down the bow until the blade makes light contact with the workpiece. Now begin to apply gradual pressure on the workpiece and complete the cut.
- Release the blade run button on the hand grip and push the bow back up toward vertical.
- 9. If finished with the operation, push the STOP button.

Blade Speed and Downfeed Pressure

The Band Saw offers continual variable speed within the specified range; the speed of the blade is set using the speed control dial next to the switch.

A general rule is the harder the material being cut, the slower the blade speed.

Also important is the downfeed pressure, which is the amount of pressure directed by the blade against the workpiece; this is controlled manually by the operator using the grip handle. Downfeed pressure can be deduced by "Recommended Cutting Times" in Figure 17.

Following are general recommendations for speed control dial positions as they relate to the various speeds and applications:

- 30 m/min. (dial position 1) for stainless steel, alloy steel and bearing bronzes.
- 45-50 m/min. (dial position 2-3) for mild steel, hard brass or bronze.
- 60-80 m/min. (dial position 4-6) for soft brass, aluminum or other light materials.

Material chips or shavings are the best indicator of proper blade speed and downfeed pressure. The ideal chip is thin, tightly curled and warm to the touch. Chips that range from golden brown to black indicate excessive force. Blue chips indicate extreme heat from too high a blade speed, which will shorten blade life. Thin or powdered chips indicate insufficient downfeed rate.

Maintenance

AWARNING Disconnect the band saw's plug from the power source before doing any maintenance.

Clean the band saw regularly after each day's work. Clear metal shavings with a suction device or brush, not your hands. Do not use compressed air.

If the power cord is worn, cut, or damaged in any way, have it replaced immediately.

All of the ball bearings are packed with grease at the factory. They require no further lubrication.

Lubricate the vise lead screw with a general-purpose grease.

Inspect the blade blocks (Figure 18). If they are worn, they should be replaced. Remove the blade and replace the blocks.

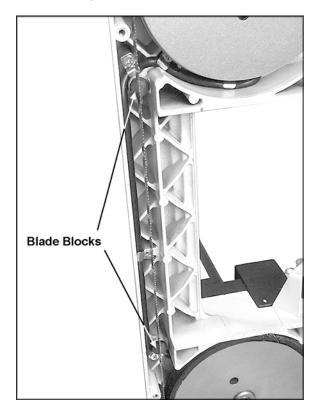


Figure 18

If the band saw will be unused for a period of time, slacken the blade tension before storage. This will help prolong the life of the blade.

Troubleshooting

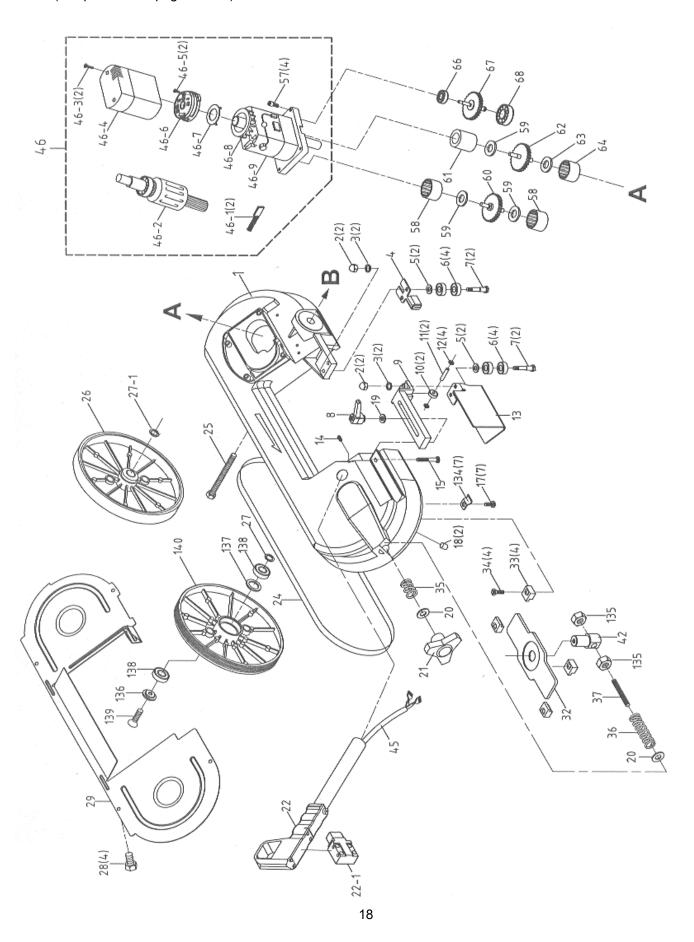
Trouble	Probable Cause	Remedy
Motor will not start, or stops suddenly.	No incoming power.	Check plug connection.
	Blown electrical panel fuses.	Replace fuses.
	Thermal overload has tripped.	Release run button and wait several minutes for overload to reset itself.
	Defective motor, switch, power cable, or plug.	Qualified electrician/service personnel should inspect these items.
	Motor is overheating.	Check that motor air intakes are clear.
Overload trips frequently.	Downfeed pressure is too fast.	Reduce downfeed pressure.
nequentry.	Motor is faulty.	Motor should be inspected by qualified electrician/service personnel.
	Stand is on uneven surface.	Adjust stand for even support.
Band Saw vibrates excessively.	Saw blade has cracks.	Replace blade immediately.
excessively.	Too heavy a cut.	Reduce downfeed pressure and blade speed.
Miter cuts not accurate.	Setting of the miter stops is not correct.	Adjust the stops to correct positions. See page 12. Use an adjustable square or protractor to check angle settings.
	Blade guides not set correctly.	See page 11 for proper adjustment.
	Downfeed pressure too great.	Decrease downfeed pressure.
	90° angle stop is not set correctly.	Adjust stop until blade is square with vise.
	Incorrect blade toothing in relation to workpiece.	Consult the cutting parameters (blade teeth, cutting speed) in Figure 17.
Cuts not square.	Incorrect adjustment of bearing guides and guide assembly.	Re-adjust these. See page 11.
	Workpiece incorrectly positioned in vise.	Check positioning and clamping in the vise.
	Poor blade tension.	Check and correct if needed. See page 12.
Finished surface of workpiece is rough,	Blade is dull, or its parameters are not right for thickness of piece being cut.	Use proper blade tooth configuration for that particular workpiece. See chart, Figure 17.
unsatisfactory.	Downfeed pressure too great.	Reduce downfeed pressure.
	Blade tension too low.	Increase blade tension.

Replacement Parts

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 between 7:30 a.m. and 6:00 p.m. (CST), Monday through Friday. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

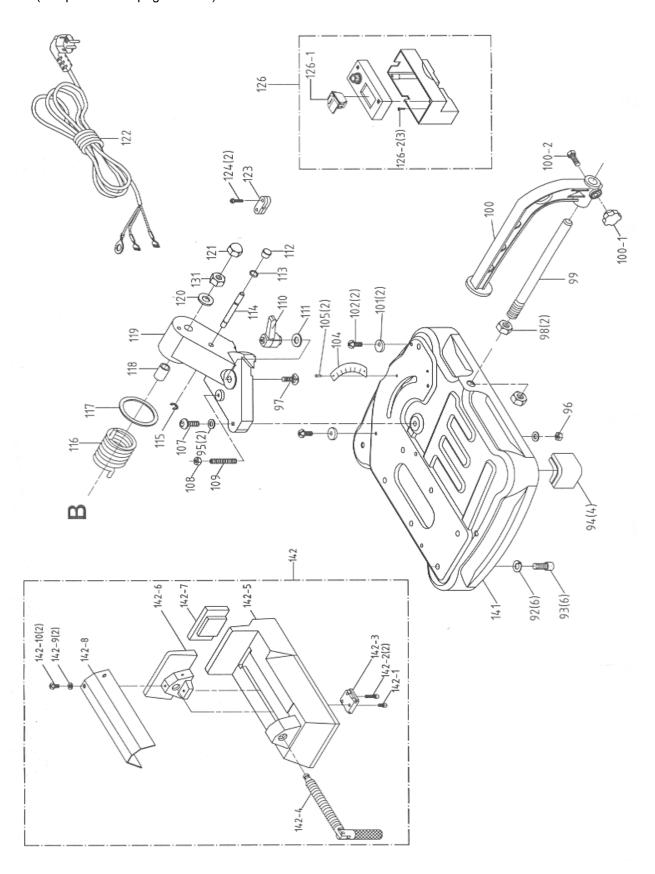
Model PB-85 Bow Assembly

(see parts list on pages 20-21)



Model PB-85 Base Assembly

(see parts list on pages 20-21)



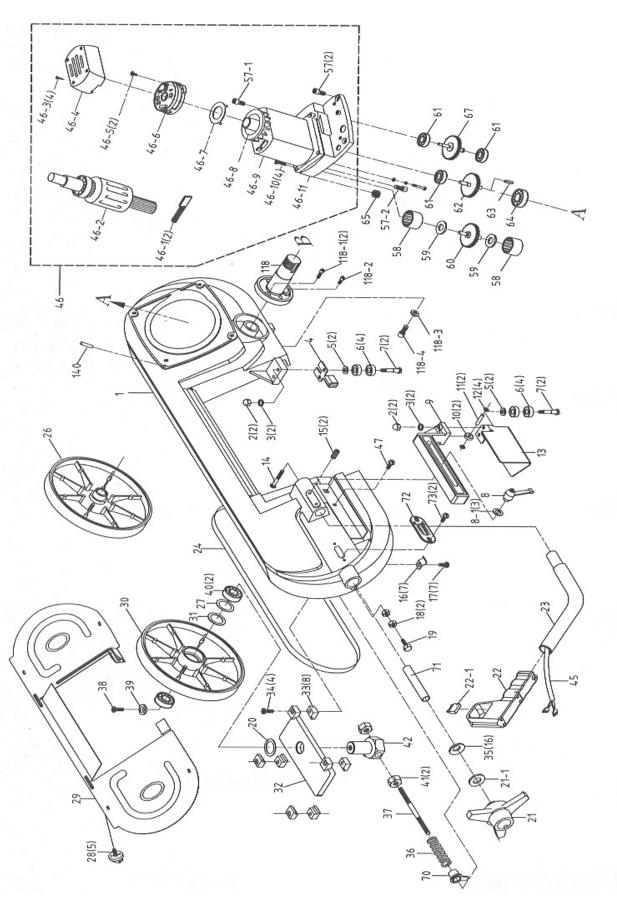
Parts List: Model PB-85

Index No.	Part No.	Description Size	Qty
		Body Frame	
		Hex NutM6	
		Lock WasherM6M6	
4	.PB85-004	Guide Bracket	1
5	.PB85-005	Washer	t 4
6	.PB85-006	Bearing607-2RS	8
7	.PB85-007	Eccentric Shaft	4
8	.PB85-008	Knob	1
9	.PB85-009	Adjustable Bracket (Front)	1
10	.PB85-010	Bearing624-2RS	2
11	.PB85-011	PinØ4 x 19.8L	2
12	.PB85-012	Washer	6t 4
13	.PB85-013	Front Blade Cover	1
		Socket Set ScrewM8-1.25x10L	
15	.PB85-015	Carriage Screw	
17	.TS-1534041	Phillips Flat Head Machine Screw	6
		Bracket	
		Flat Washer M6	
		Flat Washer M8	
		Knob	
		Handle	
		Limit Switch	
		Blade52-1/2"x.025"x6/1	
		Blade	
		Fixed Bolt	
		Drive Wheel	
		Washer	
		Washer	
		Hand Knob	
		Back Blade Cover	
		Tension Bracket	
		Slide Dog	
		Flat Cross Head Screw	
		Spring	
36	.PB85-036	Spring	1
		Bolt	
42	.PB85-042		1
		Cable	
		Motor110V	
		Brush	
		Motor Rotor Assembly	
		Phillips Pan Head Machine Screw	
		Motor Cover	
		Phillips Pan Head Machine Screw	
		Driver Assembly	
46-7	.PB85-046-7	Separator	1
46-8	.PB85-046-8	Fan	1
46-9	.PB85-046-9	Bracket	1
57	.TS-1503041	Socket Head Cap ScrewM6-1 x 15L	4
		BearingHK0609	
		Washer	
		Gear-A	
		Bushing	
		Gear-B.	
		Washer	
		Bearing HK0810	
		Bearing 627-2RS	
· · · · · · · · · · · · · · · · · · ·		234.119	1

67	PB85-067	Gear-C	1
		Bearing	
		Lock Washer	
		Socket Head Cap Screw	
		Coaster	
		Washer	
		Nut	
		Carriage Screw	
		Hex Nut	
		Stock Stop Rod	
		Stock Stop Bracket	
		Hand Knob	
100-2	TS-1482061	Hex Cap Screw	M6-1 x 30L 1
101	PB85-101	Angle Limit Adjust	2
		Phillips Pan Head Machine Screw	
104	PB85-104	Angle Gauge	1
105	PR85-105	Rivet	Ø33×6l 2
		Socket Head Cap Screw	
		Hex Nut	
		Socket Set Screw	
		Knob	
		Washer	
		Knob W/Shaft	
		Position pin	
		E Retaining Ring	
116	PB85-116	Spring	
		Washer	
		Shaft Bushing	
		Swivel Arm	
		Washer	
		Hex Nut	
		Power cable	
		Cable Setting Nut	
		Phillips Pan Head Machine Screw	
		Switch Assembly	
		ON/OFF Switch	
		Phillips Pan Head Machine Screw	
		Hex Nut	M10 1
134	PB85-134	Cable Clamp	6
135	TS-1540061	Hex Nut	M8 2
136	PB85-136	Clamp	
137	PB85-137	Washer	Ø 21.8 x 15.2 x 2t 1
		Bearing	
		Socket Head Flat Screw	
		Idler Wheel	
		Swivel Base	
		Vise Base Assembly	
		Socket Head Cap Screw	
		Socket Head Cap Screw	
		Vise Sliding Plate	
		Leadscrew	
		Vise Base	
		Vise Jaw Bracket	
		Plastic Bushing	
		Cover	
		Flat Washer	
142-10.	PB85-142-10	Phillips Pan Head Machine Screw	M5-0.8 x 5L 2
		Star Washer	
		Phillips Pan Head Machine Screw	
		p	

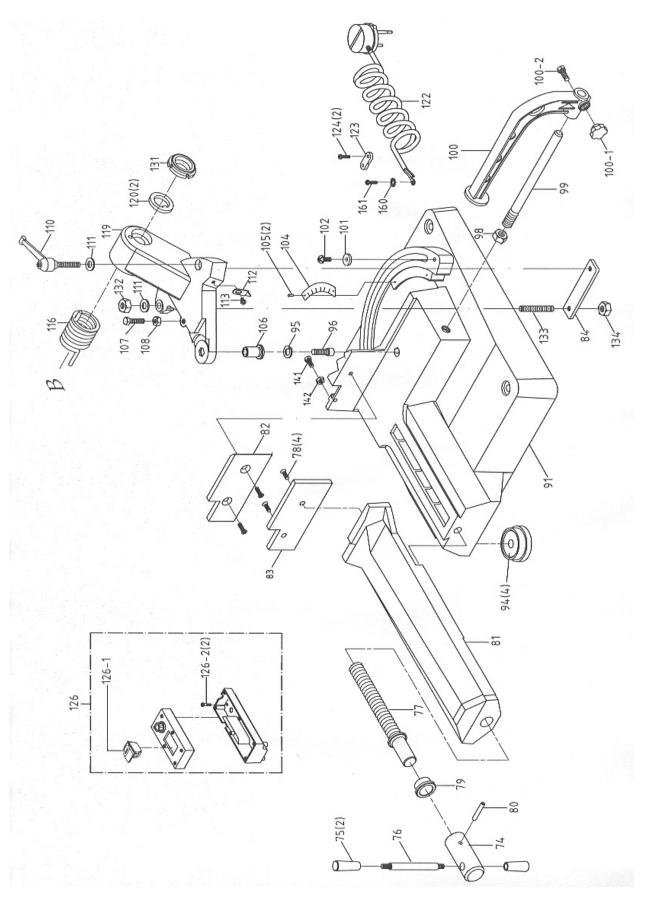
Model PB-150 Bow Assembly

(see parts list on pages 24-26)



Model PB-150 Base Assembly

(see parts list on pages 24-26)



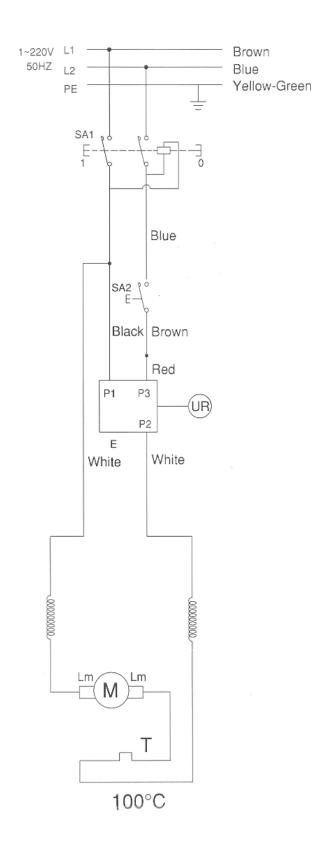
Parts List: Model PB-150

Index No.	Part No.	Description	Size	Qty
		Body Frame		
		Hex Nut		
		Lock Washer		
		Guide Bracket		
		Washer		
		Bearing		
		Eccentric Shaft		
		Knob		
		Washer		
9	.PB150-009	Adjustable Bracket (Front)		1
		Bearing		
		Pin		
		Washer		
		Front Blade Cover		
14	.PB150-014	Carriage Screw	M8 x 38L	1
		Socket Head Cap Screw		
		Clamp		
		Phillips Flat Head Machine Screw		
		Hex Nut		
		Hex Cap Screw		
		Washer		
		Knob		
		Washer		
		Handle		
		Limit Switch		
		Connecting Tube		
		Blade		
		Blade		
		Drive Wheel		
		Washer		
		Plum handle		
		Back Blade Cover		
		Idler Wheel		
		Washer		
		Tension Bracket		
		Slide Dog		
-		Flat Cross Head Screw		
		Spring		
		Spring		
		Bolt		
		Flat Cross Head Screw		
		Plate		
		Bearing		
		Hex Nut		
		Shaft		
		Cable		
		Motor 110V		
		Brush		
		Motor Rotor Assembly		
		Flat Cross Head Screw		
		Motor Cover		
		Phillips Pan Head Machine Screw		
		Driver TC-16 (110V)		
		Separator		
		Fan		
		Motor Cover		
46-10	.TS-2284252	Phillips Pan Head Machine Screw	M4 x 25L	4

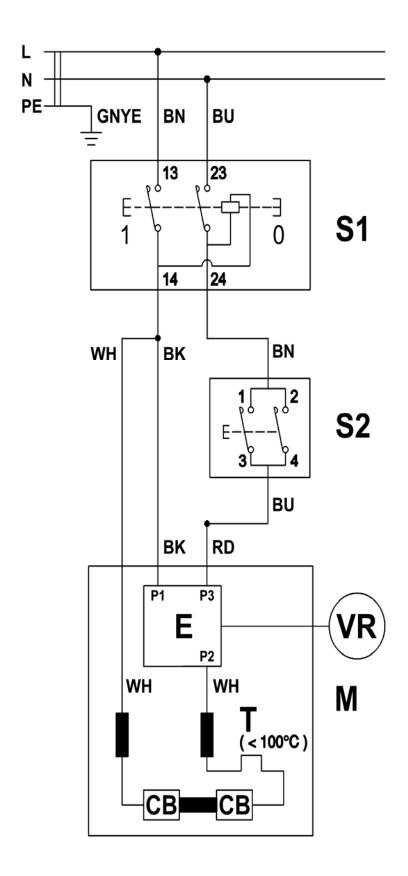
4n-11	PR150-046-11	Gear Box Cover		1
		Phillips Pan Head Machine Screw		
		Phillips Pan Head Machine Screw		
		Lock Washer		
		Washer		
		Socket Head Cap Screw		
		Socket Head Cap Screw		
		Socket Head Cap Screw		
		Bearing		
		Washer		
		Gear		
		Bearing		
		Gear		
		Key		
		Bearing		
		Bushing		
		Gear		
		Tension Indicator		
		Tube		
		Tension Indicator Plate		
		Phillips Pan Head Machine Screw		
		Shaft Bushing		
		Knob		
76	PB150-076	Handle Rod		1
77	PB150-077	Leadscrew		1
78	PB150-078	Flat Cross Head Screw	M8 x 15L	4
79	PB150-079	Bushing		1
		Pin		
		Vise Jaw Bracket		
82	PB150-082	Vise Jaw Plate		1
		Vise Jaw Plate		
		Screw Plate		
		Swivel Base		
		Coaster		
		Lock Washer		
		Socket Head Cap Screw		
		Hex Nut		
		Stock Stop Rod		
		•		
		Ston Dod Brockot		
100-1	=	Stop Rod Bracket		1
	PB150-100-1	Plum Handle		1 1
100-2	PB150-100-1 TS-1482061	Plum HandleHex Cap Screw	M6 x 30L	1 1 1
100-2 101	PB150-100-1 TS-1482061 PB150-101	Plum Handle Hex Cap Screw Angle Margin	M6 x 30L	1 1 1
100-2 101 102	PB150-100-1 TS-1482061 PB150-101 TS-1534032	Plum HandleHex Cap ScrewAngle MarginPhillips Pan Head Machine Screw	M6 x 30L	1 1 1 1
100-2 101 102 104	PB150-100-1 TS-1482061 PB150-101 TS-1534032 PB150-104	Plum Handle	M6 x 30L	1 1 1 1 1
100-2 101 102 104 105	PB150-100-1 TS-1482061 PB150-101 TS-1534032 PB150-104	Plum Handle	M6 x 30L	1 1 1 1 1
100-2 101 102 104 105	PB150-100-1 TS-1482061 PB150-101 TS-1534032 PB150-104 PB150-105	Plum Handle	M6 x 30L	1 1 1 1 1 2
100-2 101 102 104 105 106	PB150-100-1 TS-1482061 PB150-101 TS-1534032 PB150-104 PB150-105 PB150-106 TS-1482031	Plum Handle	M6 x 30L M6 x 10L 2 x 6L M6 x 15L	1 1 1 1 1 2 1
100-2 101 102 104 105 106 107	PB150-100-1 TS-1482061 PB150-101 TS-1534032 PB150-104 PB150-105 PB150-106 TS-1482031 TS-1540041	Plum Handle	M6 x 30LM6 x 10L2 x 6L	1 1 1 1 1 1 1
100-2 101 102 104 105 106 107 108	PB150-100-1 TS-1482061 PB150-101 TS-1534032 PB150-104 PB150-105 PB150-106 TS-1482031 TS-1540041 PB150-110	Plum Handle	M6 x 30L	1 1 1 1 2 1 1
100-2 101 102 104 105 106 107 110 111	PB150-100-1 TS-1482061 PB150-101 TS-1534032 PB150-104 PB150-105 PB150-106 TS-1482031 TS-1540041 PB150-110 TS-1550071	Plum Handle	M6 x 30L	1 1 1 1 1 1 1 1 1 1 1 1
100-2 101 102 104 105 106 107 110 111	PB150-100-1 TS-1482061 PB150-101 TS-1534032 PB150-104 PB150-105 PB150-106 TS-1482031 TS-1540041 PB150-110 TS-1550071 PB150-112	Plum Handle	M6 x 30L	1 1 1 1 1 1 1 1 1 1 1 1
100-2 101 102 104 105 106 107 110 111 112	PB150-100-1 TS-1482061 PB150-101 TS-1534032 PB150-104 PB150-105 PB150-106 TS-1482031 TS-1540041 PB150-110 TS-1550071 PB150-112 TS-133032	Plum Handle	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L	1 1 1 1 1 1 1 1 1 1 1 1 1
100-2 101 102 104 105 106 107 110 111 112 113 116	PB150-100-1TS-1482061PB150-101PB150-104PB150-105PB150-106TS-1482031TS-1540041PB150-110TS-1550071PB150-112PB150-116	Plum HandleHex Cap ScrewAngle MarginPhillips Pan Head Machine ScrewMiter GaugeRivetBushingHex Cap ScrewHex NutKnobWasherAngle IndicatorPhillips Pan Head Machine ScrewSpring	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
100-2 101 102 104 105 106 107 110 111 112 113 116	PB150-100-1	Plum Handle Hex Cap Screw Angle Margin Phillips Pan Head Machine Screw Miter Gauge Rivet Bushing Hex Cap Screw Hex Nut Knob Washer Angle Indicator Phillips Pan Head Machine Screw Spring Shaft	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L	1111111111111
100-2 101 102 104 105 106 107 110 111 112 113 116	PB150-100-1	Plum HandleHex Cap ScrewAngle MarginPhillips Pan Head Machine ScrewMiter GaugeRivetBushingHex Cap ScrewHex NutKnobWasherAngle IndicatorPhillips Pan Head Machine ScrewSpring	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L	1111111111111
100-2 101 102 105 106 107 110 111 112 118 118 118-3	PB150-100-1TS-1482061PB150-101TS-1534032PB150-105PB150-106TS-1482031TS-1540041PB150-110TS-1550071PB150-112TS-133032PB150-116PB150-118TS-1503061TS-1550071	Plum HandleHex Cap Screw	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L M6 x 25L M10	111111111111111111
100-2 101 102 105 106 107 110 111 112 118 118 118-3	PB150-100-1TS-1482061PB150-101TS-1534032PB150-105PB150-106TS-1482031TS-1540041PB150-110TS-1550071PB150-112TS-133032PB150-116PB150-118TS-1503061TS-1550071	Plum HandleHex Cap Screw	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L M6 x 25L M10	111111111111111111
100-2 101 102 105 106 107 110 111 112 118 118 118-3 118-4	PB150-100-1TS-1482061PB150-101TS-1534032PB150-105PB150-106TS-1482031TS-1540041PB150-110TS-1550071PB150-112TS-133032PB150-116PB150-118TS-1503061TS-1550071TS-1550071TS-1550071TS-1550071	Plum HandleHex Cap Screw	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L M6 x 25L M10 M10 x 25L	111111111111111111
100-2 101 102 104 105 106 110 111 112 113 118 118-1 118-3 118-4	PB150-100-1	Plum Handle	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L M6 x 25L M10 M10 x 25L	1111111111111111
100-2 101 102 105 106 107 110 111 112 113 118 118-1 118-3 119 119	PB150-100-1	Plum HandleHex Cap ScrewAngle MarginPhillips Pan Head Machine ScrewMiter GaugeMiter GaugeHex Cap ScrewHex Cap ScrewHex NutKnobWasherAngle IndicatorPhillips Pan Head Machine ScrewPhillips Pan Head Machine ScrewSpringSocket Head Cap ScrewFlat WasherSocket Head Cap ScrewSocket Head Cap ScrewSocket Head Cap ScrewSwivel Arm	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L M6 x 25L M10 M10 x 25L	111111111111111111
100-2 101 102 105 106 110 111 112 113 118 -1 118-3 118-4 119 120	PB150-100-1	Plum HandleHex Cap ScrewAngle MarginPhillips Pan Head Machine ScrewMiter GaugeRivetBushingHex Cap ScrewHex NutKnobWasherAngle IndicatorPhillips Pan Head Machine ScrewPhillips Pan Head Machine ScrewSpringShaftSocket Head Cap ScrewFlat WasherSocket Head Cap ScrewSwivel ArmWasher	M6 x 30L M6 x 10L 2 x 6L M6 x 15L M6 M10 M5 x 8L M6 x 25L M10 M10 x 25L	111111111111111111

124TS-2284202	Phillips Pan Head Machine Screw	4 x 20L	2
126PB150-126	Switch Assembly		1
126-1 PB150-126-1	ON/OFF Switch HY-18		1
126-2 5511819	Phillips Pan Head Machine Screw	M5 x 25L	2
131PB150-131	Hex Nut	M30 x P1.5	1
132TS-1540061	Hex Nut	M8	1
133PB150-133	Leadscrew		1
134TS-1540061	Hex Nut	M8	1
140PB150-140	Pivot Pin	6 x 20L	1
141TS-1482041	Hex Cap Screw	M6 x 20L	1
142TS-1540041	Hex Nut	M6	1
160PB85-160	Star Washer	M5	1
161TS-1533032	Phillips Pan Head Machine Screw	M5 x 10L	1

Electrical Connections: Model PB-85



Electrical Connections: Model PB-150



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